

**WHAT IS CLAIMED IS:**

1. A recording method for printing with an ink-jet printer onto a surface of a nonabsorbent printing material that does not absorb ink droplets, said method comprising:

5           assuring that said nonabsorbent printing material has a porous receiving layer;

          applying a heating treatment to said printing material during a printing operation onto said porous receiving layer;

          wherein said porous receiving layer is made to have a plurality of holes,  
10   each of said holes having a diameter in the range of 10 angstroms to 250 angstroms.

2. The recording method of Claim 1, wherein said printing operation is performed with a dye-based ink having a plurality of particles.

3. The recording method of Claim 2, wherein the particles of said dye-based ink have a size in the range of 8 angstroms to 50 angstroms and are subjected to ion  
15   separation.

4. The recording method of Claim 1, wherein said printing operation is performed with a pigment-based ink having a plurality of particles.

5. The recording method of Claim 4, wherein the particle of said pigment-based ink have a size greater than 300 angstroms and are not subjected to ion separation.